

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001009

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁷ : E21D 21/00, 20/02 According to International Patent Classification (IPC) or to both national classification and IPC												
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Dwpi: E21D 21/00, 20/02 AND (cable+ or strand+ or wire+ or bulb+ or enlarg+ or prot+)												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
X	US 6270290 B1 (STANKUS et al) 7 August 2001 The whole document	1-16										
X	WO 1993/015279 A1 (BHP ENGINEERING PTY. LTD.) 5 August 1993 The whole document	1-16										
X	GB 2265394 A (DYCKERHOFF & WIDMANN AKTIENGESELLSCHAFT) 29 September 1993 The whole document	1-16										
X	US 5954455 A (EATON et al) 21 September 1999 The whole document	1-16										
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
* Special categories of cited documents: <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 16 August 2004		Date of mailing of the international search report 23 AUG 2004										
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pet@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer LEOPOLD FILIPOVIC Telephone No : (02) 6283 2105										

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C (Continuation).

DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5344256 A (HEDRICK) 6 September 1994 Figures 1 and 2	1-16
A	US 4790129 A (HUTCHINS) 13 December 1988 Figures 9-13	1-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001009

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	6270290	AU	44784/99	AU	53933/98	AU	53934/98
		CA	2229367	CA	2229465	CA	2281240
		US	5919006	US	6074134	ZA	9801209
		ZA	9906073				
WO	9315279	AU	34448/93	CA	2129220	EP	0628114
GB	2265394	AU	32870/93	CA	2089038	DE	4203740
		MX	9300305				
US	5954455	AU	10044/97	CA	2194817	GB	2309060
		US	5785463	ZA	9700138		
US	5344256	AU	46215/89	CA	2002806	EP	0442935
		WO	9005811	ZA	8908640		
US	4790129	AU	42734/85	AU	63534/86	CA	1237593
		EP	0163479	ES	8607446	FI	852030
		JP	61047889	NO	852029	ZA	8503894
		ZW	8885				
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							